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ENGLISH ABSTRACT OF JP 10-189064

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DIALOG(R) File 347:JAPIO

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CYLINDRICAL AIR CELL

PUB. NO.:        10-189064 A]  
PUBLISHED:      July 21, 1998 (19980721)  
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APPL. NO.:      08-344234 [JP 96344234]  
FILED:          December 24, 1996 (19961224)  
INTL CLASS:     [6] H01M-012/06  
JAPIO CLASS:    42.9 (ELECTRONICS -- Other)

ABSTRACT

PROBLEM TO BE SOLVED: To provide a cylindrical air cell to improve its safety by preventing leakage of an electrolyte in discharging.

SOLUTION: This air cell includes an air pole member 4 having catalyst layers 5a and 5b within a positive electrode can 2, a hollow cylindrical separator 6 having a bottom, and a gel negative electrode 7. In this case, the gel negative electrode 7 is charged at 50% to 80% of the volume of the separator 6, and an uncharged part of the gel negative electrode material 7 is constituted as a space part 8 on the opening part side of the separator 6. The catalyst layers 5a and 5b are composed of the low-density catalyst layer 5a having a density of 0.9g/cm(sup 3) or less, and the high-density catalyst layer 5b having a density of 1.0g/cm(sup 3) or more. The low-density catalyst layer 5a is positioned in the region opposed to the space part 8 made on the opening part side of the separator 6. In addition, the inside face of the low-density catalyst layer 5a is set to have a surface area of 0.3cm(sup 2) to 2.0cm(sup 2).